



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

PATENT DOCKET NO.
107.1780002/TUM/RPG
FIRST NAMED INVENTOR
Babin et al.
FILING DATE
April 13, 2004

APPLICATION NO.
10/822,855
ART UNIT
1722

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
TWH	AA1	2,865,050	12-23-1958	Strauss	—	—	
	AB1	3,488,810	01-13-1970	Gellert	—	—	
	AC1	3,677,682	07/18/1972	Putkowski	—	—	
	AD1	3,716,318	02-13-1973	Erik et al.	—	—	
	AE1	3,741,704	06-26-1973	Beasley	—	—	
	AF1	3,952,927	04-27-1976	Schaumburg et al.	—	—	
	AG1	4,004,871	01-25-1977	Hardy	—	—	
	AH1	4,013,393	03/22/1977	Gellert	—	—	
	AI1	4,043,740	08/23/1977	Gellert	—	—	
	AJ1	4,053,271	10/11/1977	Gellert	—	—	
	AK1	4,173,448	11/06/1979	Rees et al.	—	—	
	AL1	4,268,240	05/19/1981	Rees et al.	—	—	
	AM1	4,268,241	05/19/1981	Rees et al.	—	—	
	AN1	4,279,588	07/21/1981	Gellert	—	—	
	AO1	4,286,941	09/01/1981	Gellert	—	—	
	AP1	4,306,852	12/22/1981	Mateev et al.	—	—	
	AQ1	4,312,630	01/26/1982	Travaglini	—	—	
	AR1	4,517,453	05/14/1985	Tsutsumi	—	—	
	AS1	4,652,230	03/24/1987	Osuna-Diaz	—	—	
	AT1	4,662,837	05/05/1987	Anderson	—	—	
	AU1	4,771,164	09/13/1988	Gellert	—	—	
	AV1	4,781,572	11/01/1988	Boring	—	—	
	AW1	4,787,836	11/29/1988	Osuna-Diaz et al.	—	—	
	AX1	4,911,636	03/27/1990	Gellert	—	—	
	AY1	4,945,630	08/07/1990	Gellert	—	—	
	AZ1	4,950,154	08/21/1990	Moberg	—	—	
	BA1	4,954,072	09/04/1990	Zimmerman	—	—	
	BB1	5,028,227	07/02/1991	Gellert et al.	—	—	
	BC1	5,030,084	07/09/1991	Gellert et al.	—	—	
	BD1	5,053,271	10/01/1991	Mori et al.	—	—	
	BE1	5,141,696	08/25/1991	Osuna-Diaz	—	—	
TWH	BF1	5,208,052	05/04/1993	Schmidt et al.	—	—	

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Tina Kethrick

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TWA	AA2	5,268,184	12/07/1993	Gellert	—	—	
	AB2	5,269,677	12/14/1993	Gauler	—	—	
	AC2	5,299,928	04/05/1994	Gellert	—	—	
	AD2	5,324,191	05/28/1994	Schmidt	—	—	
	AE2	5,334,008	08-02-1994	Gellert	—	—	
	AF2	5,360,333	11/01/1994	Schmidt	—	—	
	AG2	5,374,182	12/20/1994	Gessner	—	—	
	AH2	5,421,716	06/06/1995	Gellert	—	—	
	AI2	5,443,381	08/22/1995	Gellert	—	—	
	AJ2	5,474,439	12/12/1995	McGrevy	—	—	
	AK2	5,492,467	02/20/1996	Hume et al.	—	—	
	AL2	5,505,613	04/09/1996	Krummenacher	—	—	
	AM2	5,545,028	08/13/1996	Hume et al.	—	—	
	AN2	5,554,395	09/10/1996	Hume et al.	—	—	
	AO2	5,569,475	10/29/1996	Adas et al.	—	—	
	AP2	5,658,604	08/19/1997	Gellert et al.	—	—	
	AQ2	5,674,439	10/07/1997	Hume et al.	—	—	
	AR2	5,695,793	12-09-1997	Bauer	—	—	
	AS2	5,700,499	12-23-1997	Bauer	—	—	
	AT2	5,736,171	04/07/1998	McGrevy	—	—	
	AU2	5,795,599	08/18/1998	Gellert	—	—	
	AV2	5,804,228	09/08/1998	Kofsman et al.	—	—	
	AW2	5,811,140	09/22/1998	Manner	—	—	
	AX2	5,820,899	10/13/1998	Gellert et al.	—	—	
	AY2	5,834,041	11-10-1998	Sekine et al.	—	—	
	AZ2	5,849,343	12-15-1998	Gellert et al.	—	—	
	BA2	5,871,786	02/16/1999	Hume et al.	—	—	
	BB2	5,879,727	03/09/1999	Puri	—	—	
	BC2	5,885,628	03/23/1999	Swenson et al.	—	—	
	BD2	5,894,025	04/13/1999	Lee et al.	—	—	
	BE2	5,895,669	04-20-1999	Seres, Jr. et al.	—	—	
	BF2	5,925,386	07/20/1999	Moberg	—	—	
	BG2	5,948,450	09/07/1999	Swenson et al.	—	—	
TWA	BH2	5,980,234	11/09/1999	Harley	—	—	

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Tim Neubrick

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TWH	AA3	5,980,237	11/09/1999	Swenson et al.	—	—	
	AB3	6,022,210	02/08/2000	Gunther	—	—	
	AC3	6,030,202	02/29/2000	Gellert et al.	—	—	
	AD3	6,050,806	04/18/2000	Ko	—	—	
	AE3	6,074,195	06/13/2000	Belous	—	—	
	AF3	6,089,468	07-18-2000	Bouti	—	—	
	AG3	6,143,358	11/07/2000	Singh et al.	—	—	
	AH3	6,164,954	12/26/2000	Mortazavi et al.	—	—	
	AI3	6,220,851 B1	04/24/2001	Jenko	—	—	
	AJ3	6,227,461 B1	05/08/2001	Schroeder et al.	—	—	
	AK3	6,245,278 B1	06/12/2001	Lausenhammer et al.	—	—	
	AL3	6,254,377 B1	07/03/2001	Kazmer et al.	—	—	
	AM3	6,261,084 B1	07/17/2001	Schmidt	—	—	
	AN3	6,264,460 B1	07/24/2001	Wright et al.	—	—	
	AO3	6,273,706	08/14/2001	Gunther	—	—	
	AP3	6,287,107 B1	09/11/2001	Kazmer et al.	—	—	
	AQ3	6,309,208 B1	10/30/2001	Kazmer et al.	—	—	
	AR3	6,315,549 B1	11/13/2001	Jenko et al.	—	—	
	AS3	6,331,106	12/18/2001	Helldin	—	—	
	AT3	6,358,038 B1	03/19/2002	Rozenberg	—	—	
	AU3	6,358,039	03/19/2002	Manner et al.	—	—	
	AV3	6,394,785 B1	05/28/2002	Ciccone	—	—	
	AW3	6,419,116 B1	07/16/2002	Eigler et al.	—	—	
	AX3	6,428,305 B2	08/06/2002	Jenko	—	—	
	AY3	6,533,571 B2	03/18/2003	Fikani	—	—	
	AZ3	6,609,902 B1	08/26/2003	Blais et al.	—	—	
	BA3	6,726,467 B1	04/27/2004	Lefebure	—	—	
	BB3	6,709,262 B2	03/23/2004	Fong	—	—	
	BC3	6,769,901 B2	08/03/2004	Babin et al.	—	—	
	BD3	6,821,112 B2	11/23/2004	Eigler et al.	—	—	
	BE3	6,832,909 B2	12/21/2004	Bazzo et al.	—	—	
	BF3	US 2003/0008034 A1	01/09/2003	Niewels	—	—	
TWH	BG3	US 2003/0082263 A1	05/01/2003	Olaru	—	—	

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Tim Nithwick

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<i>TWH</i>	AA4	US 2003/0082264 A1	05/01/2003	Babin et al.	—	—	
<i>TWH</i>	AB4	US 2003/0086997 A1	05/08/2003	Olaru	—	—	
<i>TWH</i>	AC4	US 2003/0170340 A1	09/11/2003	Sicilia et al.	—	—	
<i>TWH</i>	AD4	US 2003/0235638 A1	12/25/2003	Gellert	—	—	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>TWH</i>	FA4	CA 2,082,700	05/13/1994	Canada	—	—	Yes No
	FB4	DE 3245571 A1	06-20-1984	Germany	—	—	Yes No
	FC4	DE 29602484	05-09-1996	Germany	—	—	X Yes No
	FD4	DE 19608676	01-30-1997	Germany	—	—	X Yes No
	FE4	DE 10008722 A1	08/30/2001	Germany	—	—	X Yes No
	FF4	DE 10037739 A1	02/21/2002	Germany	—	—	X Yes No
	FG4	EP 0590677 A1	04/06/1994	Europe	—	—	Yes No
	FH4	EP 0638407	02-15-1995	Europe	—	—	X Yes No
	FI4	EP 0743158 A1	11/20/1996	Europe	—	—	Yes No
	FJ4	EP 0743158 B1	08/04/1999	Europe	—	—	Yes No
	FK4	EP 0750975 A1	01-02-1997	Europe	—	—	Yes No
	FL4	EP 0835176 B1	04/15/1998	Europe	—	—	X Yes No
	FM4	EP 0873841	10-28-1998	Europe	—	—	Yes No
	FN4	EP 0920969 A1	06/09/1999	Europe	—	—	Yes No
	FO4	EP 0962296 A2	12-08-1999	Europe	—	—	X Yes No
	FP4	EP 1188537 A2	03-20-2002	Europe	—	—	Yes No
	FQ4	EP 1321274 A1	06/25/2003	Europe	—	—	Yes No
	FR4	FR 2537497	06-15-1984	France	—	—	X Yes No
	FS4	GB 1 540 698	02/14/1979	Great Britain	—	—	Yes No
	FT4	JP 05-177664	07-20-1993	Japan	—	—	X Yes No
	FU4	JP 05-261770	10-12-1993	Japan	—	—	X Yes No
	FV4	JP 05-309695	11-22-1993	Japan	—	—	X Yes No
<i>TWH</i>	FW4	JP 06-143358	05-24-1994	Japan	—	—	X Yes No

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TWH	FA5	JP 07-148786	06-13-1995	Japan	—	—	X	Yes
	FB5	JP 08-90598	04-09-1996	Japan	—	—	X	No
	FC5	JP 10-034708	02/10/1998	Japan	—	—	X	Yes
	FD5	JP 10-264222	10-06-1998	Japan	—	—	X	No
	FE5	JP 11-254488	09-21-1999	Japan	—	—	X	Yes
	FF5	JP 2002-307492	10-23-2002	Japan	—	—	X	No
	FG5	JP 2003-11173	01-15-2003	Japan	—	—	X	Yes
	FH5	JP 2003-11174	01-15-2003	Japan	—	—	X	No
	FI5	JP 2003-11176	01-15-2003	Japan	—	—	X	Yes
	FJ5	WO 84/00922	03-15-1984	WIPO/PCT	—	—	X	No
	FK5	WO 97/02129	01/23/1997	WIPO/PCT	—	—	X	Yes
	FL5	WO 00/48814	08/24/2000	WIPO/PCT	—	—		No
	FM5	WO 01/28750 A1	04/26/2001	WIPO/PCT	—	—		Yes
	FN5	WO 01/78961	10-25-2001	WIPO/PCT	—	—		No
	FO5	WO 02/40245 A1	05/23/2002	WIPO/PCT	—	—		Yes
	FP5	WO 03/028973	04/10/2003	WIPO/PCT	—	—		No
	FQ5	WO 03/028974	04/10/2003	WIPO/PCT	—	—		Yes
	FR5	WO 03/004243	01-16-2003	WIPO/PCT	—	—		No
	FS5	WO 03/086734	10/23/2003	WIPO/PCT	—	—		Yes
	FT5	WO 03/070446	08-28-2003	WIPO/PCT	—	—		No
TWH	FU5	WO 2004/12923	02-12-2004	WIPO/PCT	—	—		Yes

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TWH	OA	5	Ewikon, Instruction Manual for Ewikon Hotrunner Systems.
TWH	OB	5	Husky Injection Molding Systems, S.A., 750 Series.

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Tim Nierbrink

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TWH	OA	<u>6</u>	J.D. Robinson, "Gating and Cooling Techniques for Polypropylene," <i>Plastics</i> , August, 1965, pp. 47-51.
TWH	OB	<u>6</u>	H.P. Manner, "Nadelverschlußdusen für kurze Zykluszeit," <i>Kunststoffe</i> 85(2): 166-168(1995).
TWH	OC	<u>6</u>	Ewikon, Hotrunner Systems for Large Parts, pp. 2-11, 05/2000.
TWH	OD	<u>6</u>	Ewikon, Product Guide, "Internally Heated Hotrunner Systems," pp. 2-7, 10/2000.
TWH	OE	<u>6</u>	Ewikon Product Catalog entitled "Außenbeheizte Heißkanalduse, 230 V, für schnelle Farbwechsel," 3 pgs., dated October 2000.
TWH	OF	<u>6</u>	Daniel Frenkler and Henry K. Zawistowski - RAPRA Technology Ltd., "Hot Runners in Injection Moulds," 2001.
TWH	OG	<u>6</u>	Ewikon, Hotrunner Systems for the Packaging and Medical Industry, pp. 2-7, 06/2001.
TWH	OH	<u>6</u>	Ewikon, HPS III-NV Valve Gate Systems, "All Advantages of the Valve Gate Technology in a Most Compact System," p. 209, 10/2001.
TWH	OI	<u>6</u>	Ewikon, HPS III-VT Nozzles, 230 V Externally Heated, "For Multi-Cavity Applications and Close Cavity Spacing," pp. 2-7, 10/2001.

EXAMINER

Gina N. Nibbelink

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TWH	OA	<u>z</u>	Redacted letter and attached figure addressed to Mold Masters Limited from the representative of Mr. Maurizio Bazzo dated December 21, 2001.
TWH	OB	<u>z</u>	Ewikon, HPS III Single Tips, 230 V Externally Heated, "HPS III-SE High Performance Single Tips, 230 V With Tip Sealing Technology," pp. 2-9, 03/2002
TWH	OC	<u>z</u>	Images and information from "Gunther Hot Runner Technology," taken from Gunther website August 2003.
TWH	OD	<u>z</u>	PCT Search Report for PCT/CA03/01154 dated 12/03/2004

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EXAMINER	<i>Tina Hoshino</i>	DATE CONSIDERED 6-9-05
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<i>TWH</i>	AA1	4,010,903	Mar. 8, 1977	Sakuri et al.	—	—	
<i>TWH</i>	AB1	4,368,028	Jan. 11, 1983	Grish et al.	—	—	
<i>TWH</i>	AC1	4,412,807	Nov. 1, 1983	York	—	—	
<i>TWH</i>	AD1	4,768,283	Sep. 6, 1988	Gellert	—	—	
<i>TWH</i>	AE1	4,768,945	Sep. 6, 1988	Schmidt et al.	—	—	
<i>TWH</i>	AF1	4,832,593	May 23, 1989	Brown	—	—	
<i>TWH</i>	AG1	4,875,848	Oct. 24, 1989	Gellert	—	—	
<i>TWH</i>	AH1	4,902,218	Feb. 20, 1990	Leonard et al.	—	—	
<i>TWH</i>	AI1	4,981,431	Jan. 1, 1991	Schmidt	—	—	
<i>TWH</i>	AJ1	5,015,170	May 14, 1991	Gellert	—	—	
<i>TWH</i>	AK1	5,067,893	Nov. 26, 1991	Osuna-Diaz	—	—	
<i>TWH</i>	AL1	5,139,724	Aug. 18, 1992	Hofstetter et al.	—	—	
<i>TWH</i>	AM1	5,254,305	Oct. 19, 1993	Fernandez et al.	—	—	
<i>TWH</i>	AN1	5,501,594	Mar. 26, 1996	Glozer et al.	—	—	
<i>TWH</i>	AO1	5,652,003	Jul. 29, 1997	Gellert	—	—	
<i>TWH</i>	AP1	5,686,122	Nov. 11, 1997	Huntington et al.	—	—	
<i>TWH</i>	AQ1	5,707,667	Jan. 13, 1998	Galt et al.	—	—	
<i>TWH</i>	AR1	5,871,785	Feb. 16, 1999	Van Boekel	—	—	
<i>TWH</i>	AS1	5,941,637	Aug. 24, 1999	Maurer	—	—	
<i>TWH</i>	AT1	6,003,182	Dec. 21, 1999	Song	—	—	
<i>TWH</i>	AU1	6,009,616	Jan. 4, 2000	Gellert	—	—	
<i>TWH</i>	AV1	6,017,209	Jan. 25, 2000	Gellert et al.	—	—	
<i>TWH</i>	AW1	6,135,757	Oct. 24, 2000	Jenko	—	—	
<i>TWH</i>	AX1	6,234,783	May 22, 2001	Shibata et al.	—	—	
<i>TWH</i>	AY1	6,318,990	Nov. 20, 2001	Gellert et al.	—	—	
<i>TWH</i>	AZ1	2004/0071817	Apr. 15, 2004	Fisher et al.			

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<i>TWH</i>	BA2	CA 2,190,569	May 18, 1998	Canada	—	—	Yes No
	BB2						Yes No
	BC2						Yes No

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Tim Woodbridge

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